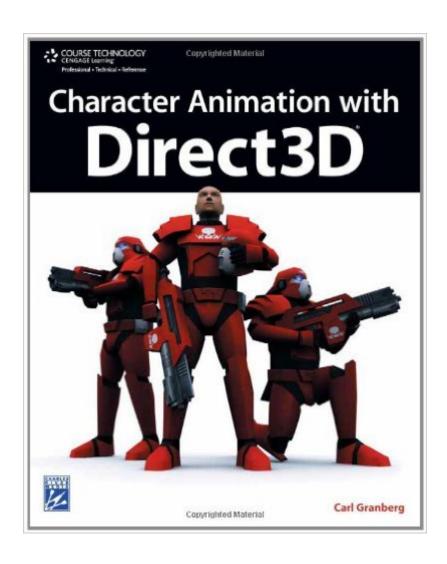
The book was found

Character Animation With Direct3D





Synopsis

Do you want to learn how to make your game characters look and move more realistically? Character Animation with Direct3D shows you how to apply fundamental character animation techniques to Direct3D technology to bring your characters to life. Beginning with a brief history of character animation, you'll be introduced to the most common types of character animation. This book covers skeletal animation, morphing, inverse kinematics, ragdoll animation, and much more. You'll start with a basic 3D character that you'll bring to life as you work your way through each chapter. Throughout the course of the book you'll learn how to create a character that can walk, talk, collide with objects, fall, and more. You'll utilize skeletal animation for overall movement and morphing animation techniques for more refined movement such as changes in facial expression. You can apply the character animation skills you learn in this book to any game genre. Character Animation with Direct3D is perfect for any game developer looking to create more life-like and interesting game characters.

Book Information

Paperback: 304 pages

Publisher: Cengage Learning; 1 edition (April 23, 2009)

Language: English

ISBN-10: 1584505702

ISBN-13: 978-1584505709

Product Dimensions: 0.8 x 7.5 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars Â See all reviews (6 customer reviews)

Best Sellers Rank: #1,424,606 in Books (See Top 100 in Books) #22 in Books > Computers &

Technology > Programming > Graphics & Multimedia > DirectX #261 in Books > Computers &

Technology > Digital Audio, Video & Photography > Digital Audio Production #668 in Books >

Computers & Technology > Digital Audio, Video & Photography > Video Production

Customer Reviews

I ordered this book soon after finishing Carl Granberg's last book. The previous book delves into many helpful techniques regarding programming a game from scratch, and many different ways of doing it well. The new book focuses on character animation, but also does it with an iterative approach, making it relatively easy to pick apart the program and figure out how everything works. If more game programming books were like this there would have many more experienced

programmers out there! The book goes through a new, separate example for each technique and covers many aspects of animation as well as many related topics. Examples are skinned meshes, skeletal animation, physics animation (leading to) ragdoll simulation, facial animation/lip sync, mapping characters, crowd simulation, decals on characters(bullet holes,ect), and adding/animating hair!Carl's style is much easier to learn from than several other authors combined, and many of the techniques will help you out even if you are not ready for character animation yet. With this book and the previous book combined, and some knowledge of C++, you have enough resources to write your own game of almost any genre.

I have eagerly awaited the release of this book since it was announced in the spring, and was not disappointed. I am using Granberg's previous book (Programming an RTS Game with Direct3D) in my intermediate-level DirectX course, and will be using Character Animation with Direct3D in my advanced-level DirectX course, which focuses on game engine development. Unlike his RTS book, the code in this one works flawlessly as published (Granberg did release a new VS2008 version of his RTS sources, and all examples are guite stable). The topics in this book are very relevant to the topics faced by programmers working on modern game engines, including facial animation, mesh animation blending (running while moving the torso and head in different directions, for instance), realistic hair, and voice-lip syncing. Along the way, the reader is treated to Granberg's step-by-step examples that teach using a natural, progressive method of increasing the complexity step by step. This form of teaching is very difficult to pull off while also demonstrating excellent, modern, real-world examples at the same time--something Granberg does very well. For instance, chapter 4 in his RTS book will teach you, succinctly, how to create smooth heightmap terrain with multi-textured smoothing, because it is presented step by step (with 12 distinct example projects in that one chapter alone). His Character Animation chapter examples follow the same technique, and is a great choice for a textbook as a result.1. Introduction to Character Animation2. A Direct3D Primer3. Skinned Meshes4. Skeletal Animation5. Advanced Skeletal Animation Techniques6. Physics Primer7. Ragdoll Simulation8. Morphing Animation9. Facial Animation10. Making Characters Talk11. Inverse Kinematics12. Wrinkle Maps13. Crowd Simulation14. Character Decals 15. Hair Animation 16. Putting It All Together

Not much filler in this book.. it's all work!Except for the 3D animation industry chapter.. it felt like a good break:)The book is very condensed, if your a newbie 3D programmer like me you'll be re-reading paragraphs while following the code.Which is a great way to learn!:DDon't let it's age

and Direct3D fool you, the techniques covered here are very much relevant (shaders, texture mapping etc) and can be applied to openGL and game engines. Read half of it, only reading the chapters which I need, so the layout is good. The Author's site has updated code which work great. Looking at getting his RTS book also. I would give it 5/5 if it had a bit more 3D newbie explanations, the newbie parts feel a bit short for me. Looking at creating my first game, and this is a great resource. My dev blog is here:[...]

Download to continue reading...

Character Animation With Direct3D Cutting-Edge Direct3D Programming: Everything You Need to Create Stunning 3D Applications with Direct3D Animation (Walt Disney Animation Studios: The Archive Series) How to Create Animation in 10 Easy Lessons: Create 2-D, 3-D, and Digital Animation without a Hollywood Budget (Super Skills) Stop Motion: Craft Skills for Model Animation (Focal Press Visual Effects and Animation) The Animation Book: A Complete Guide to Animated Filmmaking--From Flip-Books to Sound Cartoons to 3-D Animation The Complete Animation Course: The Principles, Practice and Techniques of Successful Animation Character Animation Crash Course! How to Cheat in Maya 2014: Tools and Techniques for Character Animation Tuttle Chinese for Kids Flash Cards Kit Vol 1 Simplified Character: [Includes 64 Flash Cards, Downloadable Audio, Wall Chart & Learning Guide]: Simplified Character v. 1 (Tuttle Flash Cards) Direct3D SHADERX: Vertex & Pixel Shader Tips and Techniques (Wordware Game Developer's Library) Programming an RTS Game with Direct3D Direct3D Rendering Cookbook Direct3D and 3D Engine Programming Direct3D for Students Practical Rendering and Computation with Direct3D 11 Direct3D For Ladies Beginning Direct3D Game Programming w/CD (Prima Tech's Game Development) Inside Direct3D (Dv-Mps Inside) Graphics Programming with Direct3D

<u>Dmca</u>